

**Notice of Allowability**

Application No.

10/731,556

Examiner

Minh-Chau T. Pham

Applicant(s)

SPORRE ET AL.

Art Unit

1724

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Amendment filed on 7/28/06.
2. ☒ The allowed claim(s) is/are 1-14, 16-18 and 20-23 (renumbered as 1-21 respectively).
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All b) ☐ Some\* c) ☐ None of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

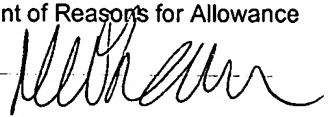
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
  - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
    - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
  - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),  
Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

  
Minh-Chau Pham  
Patent Examiner  
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***Allowable Subject Matter***

Claims 1-8 allowed as indicated in previous Office Action.

Claims 9 and 20-23 allowed.

The closest relevant art is Elliott et al (6,129,852) wherein Elliott et al teach a nozzle (9) for use with a filter cleaning system (col. 1, lines 6-9) comprising a nozzle body having a first end and a second end, the first end defining a primary fluid jet passage (18), the second end defining multiple exhaust tubes (14 in Figs. 3 & 4), and a diffuser arrangement located to the second end of the nozzle body including a number of different configurations such as hexagonal pyramid divergent portion or hexagonal prismatic portion (see col. 6, lines 47-51) or any other desirable shape (col. 6, lines 52-59). Elliott et al further teach the air flow exiting through the multiple exhaust holes (14) in a non-perpendicular direction relative to the centerline of the primary fluid jet passage (see the configuration of 14 in Fig. 4) or at the angle (see col. 4, lines 16-35) (see also col. 4, lines 55-60, col. 6, lines 22-28 and lines 46-49).

Claims 9 and 20-23 of this instant patent application differ from the disclosure of Elliott et al in that the nozzle has a nozzle body and multiple exhaust tubes are defined by a second end of the nozzle body.

Claims 10-14 and 16-18 allowed.

The closest relevant art is Simonsen et al (6,332,902 B1) wherein Simonsen et al teach a manifold and a valve arrangement for use with a filter cleaning system (col. 1, lines 14-17) comprising a manifold (14), a valve (15) mounted to the manifold (14), first and second seals, openings (18) located in the manifold (14), and a diaphragm

selectively positionable in open and closed positions to control fluid communication through the valve (15) (see details of Fig. 2). Simonsen et al further show the fluid passage being tapered from the first end to the second end (see Fig. 2) (see also col. 2, lines 40-65, col. 5, lines 25-39 and line 64 through col. 6, line 10, col. 6, line 18 through col. 7, line 49, col. 8, lines 31-41).

Claim 10 of this instant patent application differs from the disclosure of Simonsen et al in that the control valve has first and second seals wherein the first seal of valve provides sealing contact between the valve body of the valve and an outer surface of the manifold, and the second seal provides sealing contact between the valve body and the interior of the manifold, and a diaphragm positionable in open and closed positions to control fluid communication through the valve.

Claims 11-14 and 16-18 of this instant patent application differ from the disclosure of Simonsen et al in that the control valve has first and second seals wherein the first seal of valve provides sealing contact between the valve body of the valve and an outer surface of the manifold, and the second seal provides sealing contact between the valve body and the interior of the manifold, and a diaphragm positionable in open and closed positions to control fluid communication through the valve. The valve further includes a mounting flange interconnected to the valve body, and a plurality of openings formed between the mounting flange and the valve body.

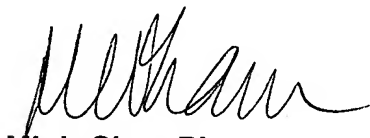
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Minh-Chau T. Pham whose telephone number is (571)

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272-1163. The examiner can normally be reached on Mon/Tues/Thur/Fri 7:00 am - 5:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Duane Smith can be reached on (571) 272-1166. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



**Minh-Chau Pham**  
**Patent Examiner**  
**Art Unit : 1724**  
**October 12, 2006**